# Q-376R1

# SVE BULLETIN

***SPECIAL VEHICLE ENGINEERING – FORD PRO BODY BUILDERS ADVISORY SERVICE***

Website: https://www.fordpro.com/en-us/upfit/publications/

## 2027MY E-SERIES FUEL FILLER, FUEL LINE, AND BRAKE LINE CHANGES

| REVISION | UPDATE | REVISION DATE |
|---|---|---|
| Q-376R1 | ADDED FRAME MOUNTED FUEL AND BRAKE LINE UPDATES | 21012026 |
| Q-376 | INITIAL RELEASE | 29072025 |

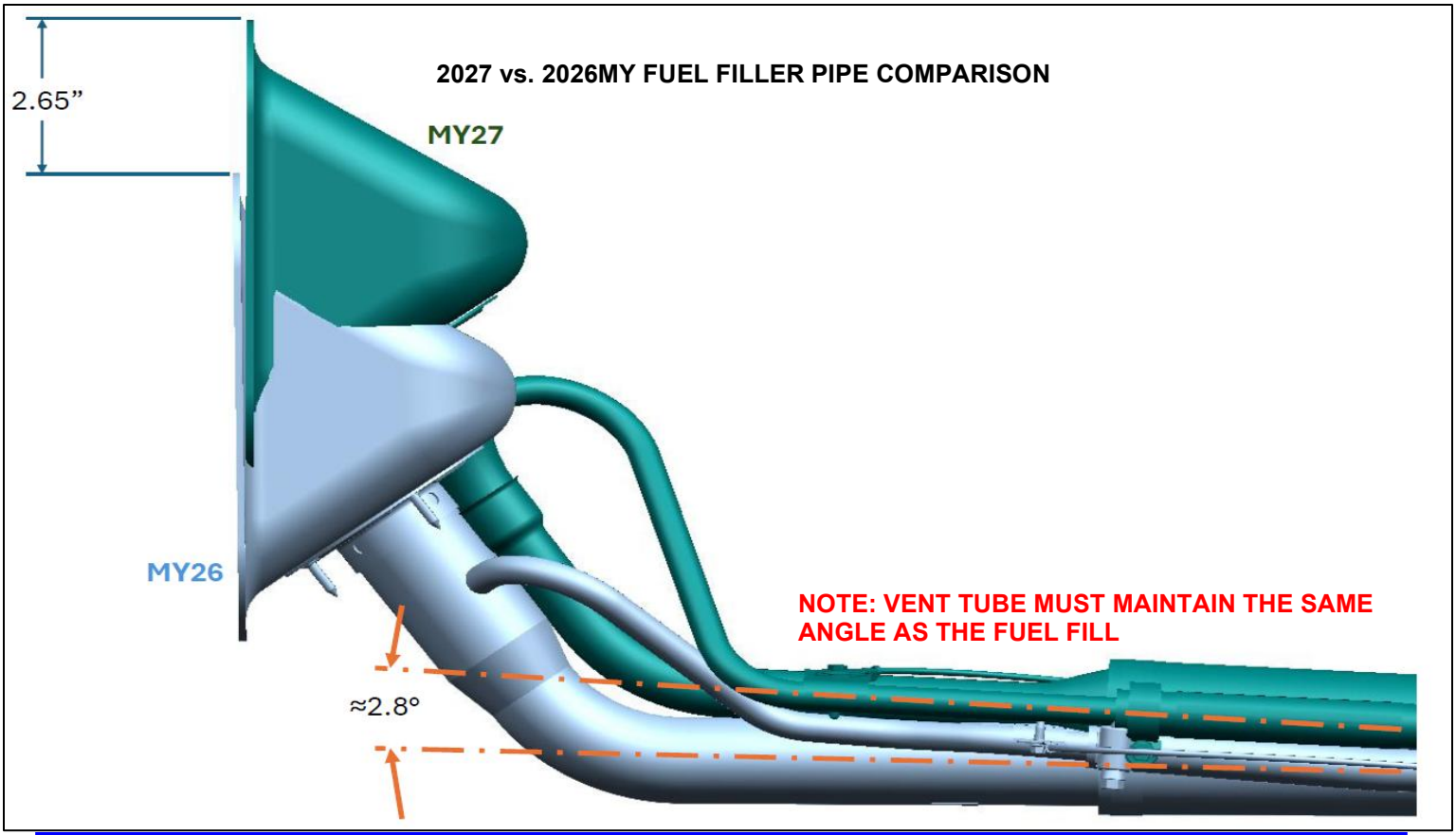
**MODEL(S) AFFECTED:**
2027MY E-SERIES CUTAWAY and STRIPPED CHASSIS

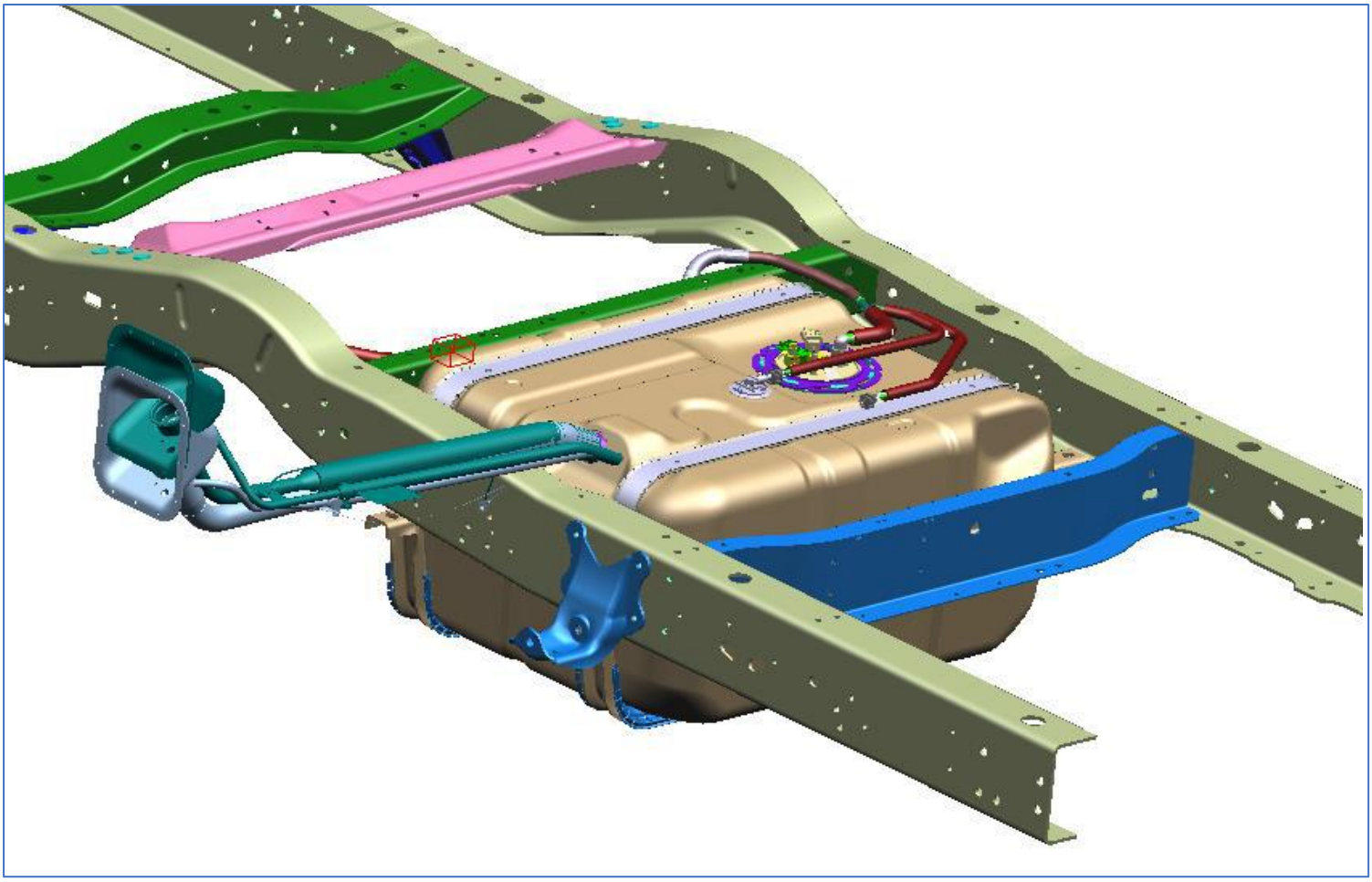
**ISSUE / DESCRIPTION:**
For the 2027 Model Year (MY) E-SERIES CA and SC the fuel filler pipe location requirements has changed to meet new ORVR emissions regulations. Fuel filler pipe and housing are a new design.

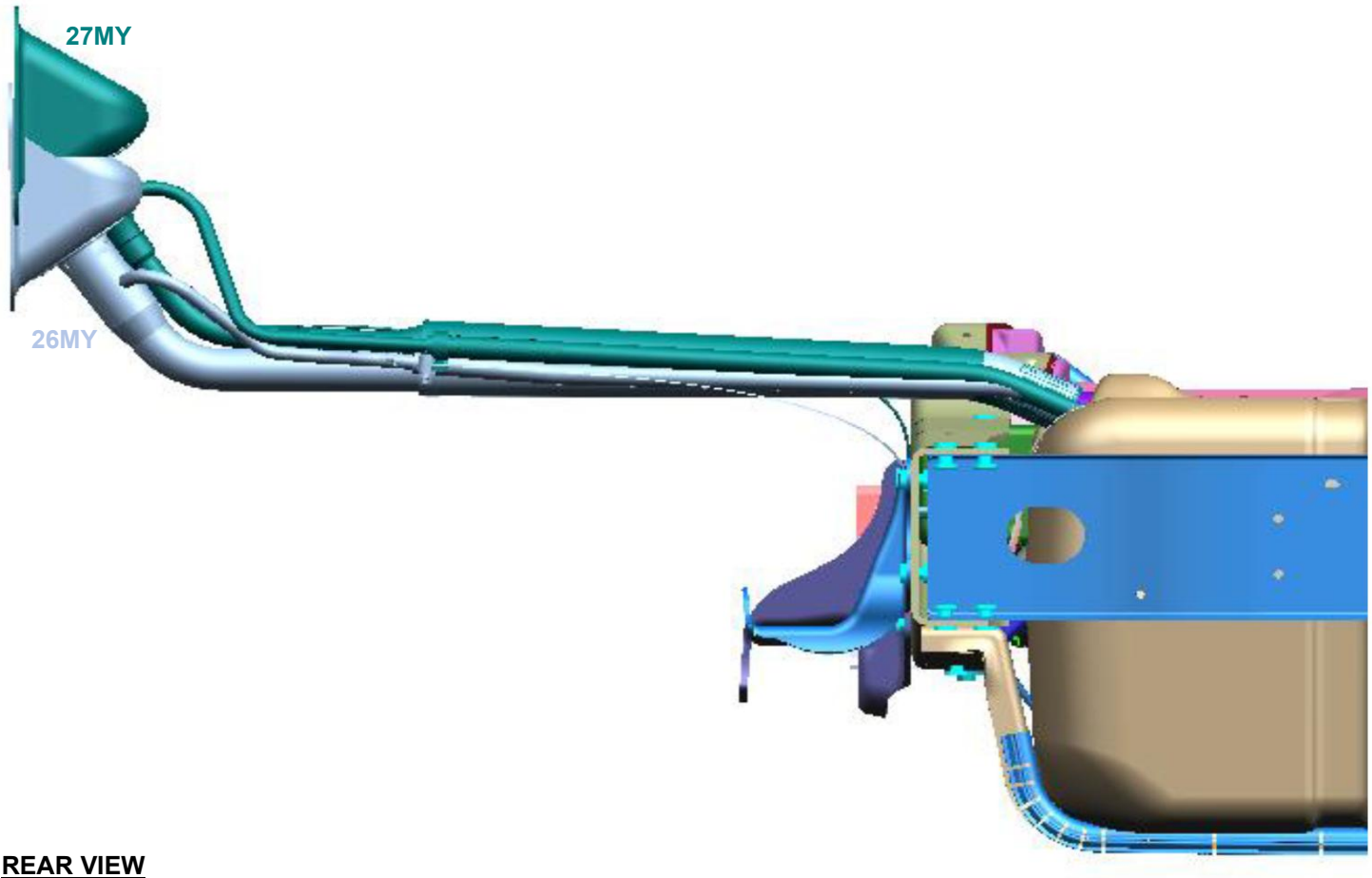
- Additional Guidance will be published in the forthcoming E-Series Incomplete Vehicle Manual (IVM)
- School Bus and Other now have a common location
- Changes have been made to the frame mounted fuel and brake lines.

**Body Builders are advised to review cad data to confirm compatibility of changes with their upfits.**
CAD Data is available upon request at https://www.fordpro.com/en-us/upfit/bbas/.

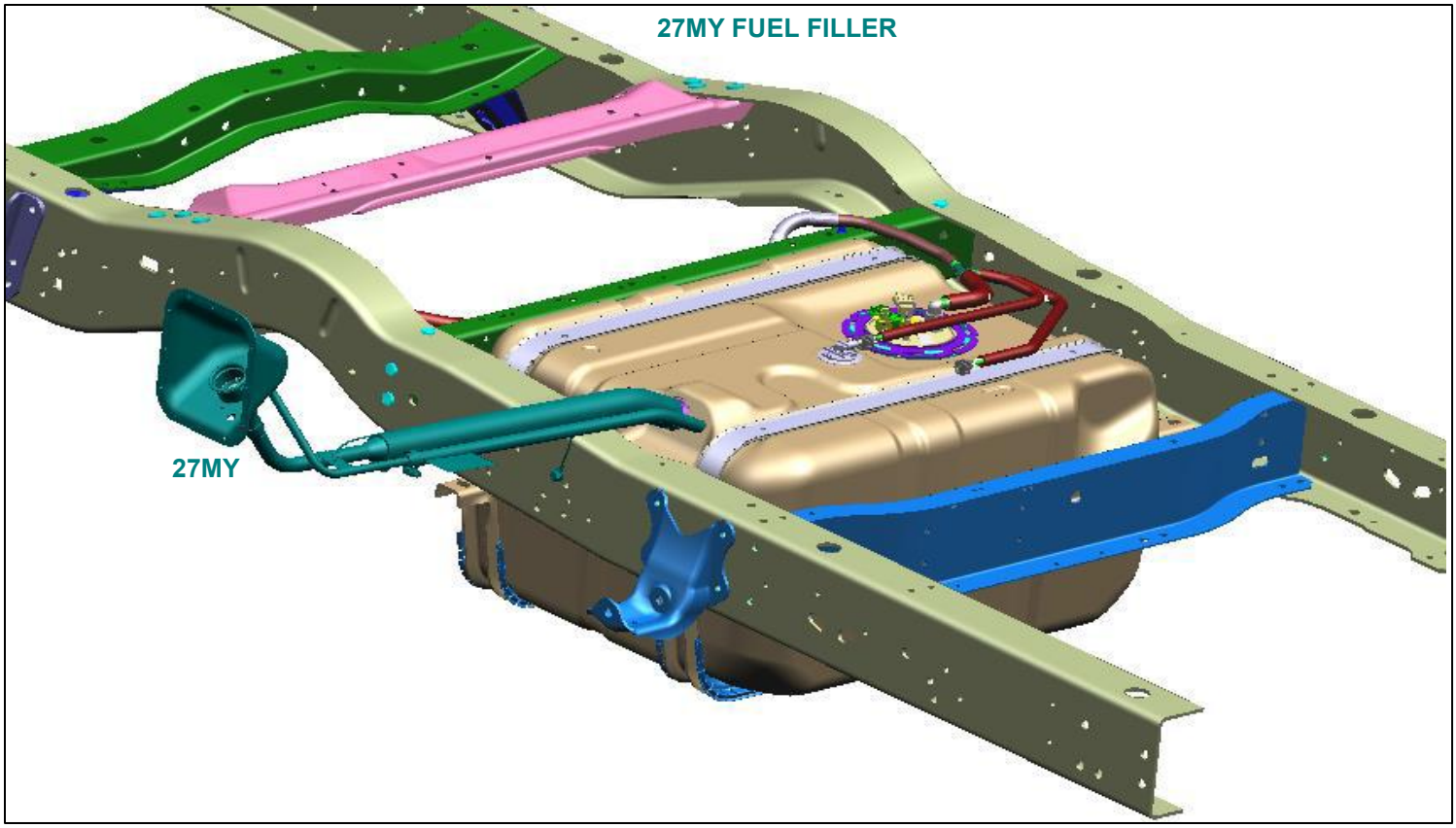
**2027 vs. 2026MY FUEL FILLER PIPE COMPARISON**

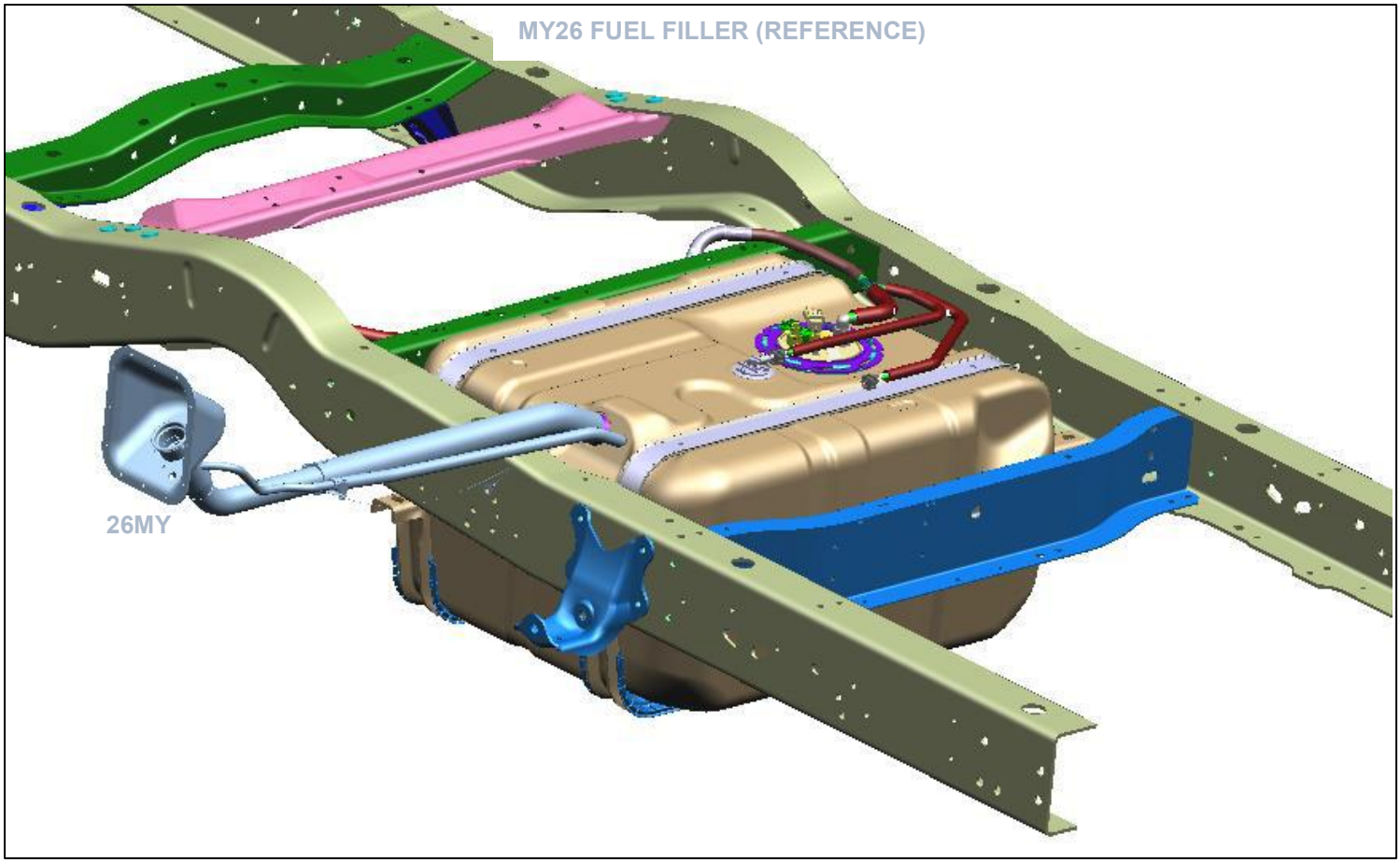







**REAR VIEW**

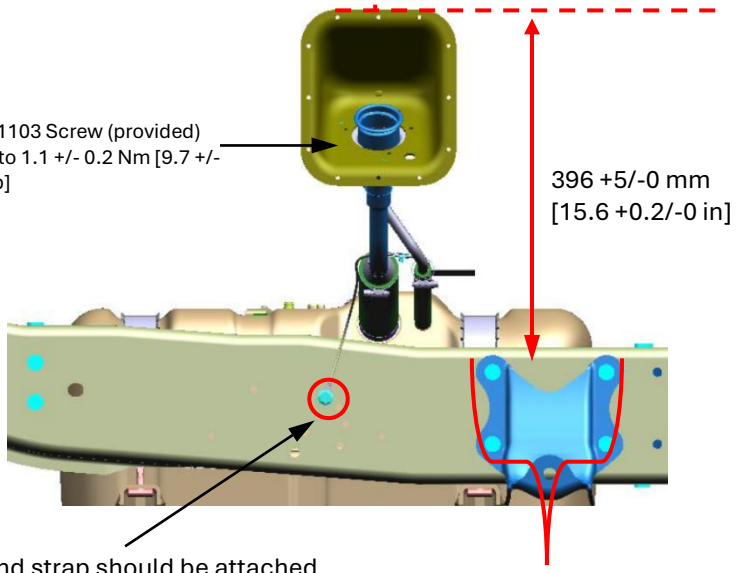

27MY FUEL FILLER
27MY


MY26 FUEL FILLER (REFERENCE)
26MY

**NOTE: DIMENSIONS ARE PRELIMINARY AND ARE SUBJECT TO CHANGE. PLEASE REFERENCE THE 27MY E-SERIES INCOMPLETE VEHICLE MANUAL (IVM)**

## SIDE VIEW

CUTAWAY – MEASURED TO BACK OF CAB:
2640 +/-25 mm [103.9 +/-1.0 in] for 138" WB
3148 +/-25 mm [123.9 +/-1.0 in] for 158" WB
3606 +/-25 mm [142.0 +/-1.0 in] for 176" WB
STRIPPED CHASSIS – MEASURED TO CENTERLINE OF REAR AXLE:
602 +/-25mm [23.7 +/-1.0 in] for all WB
Measured from Centerline of fuel fill housing



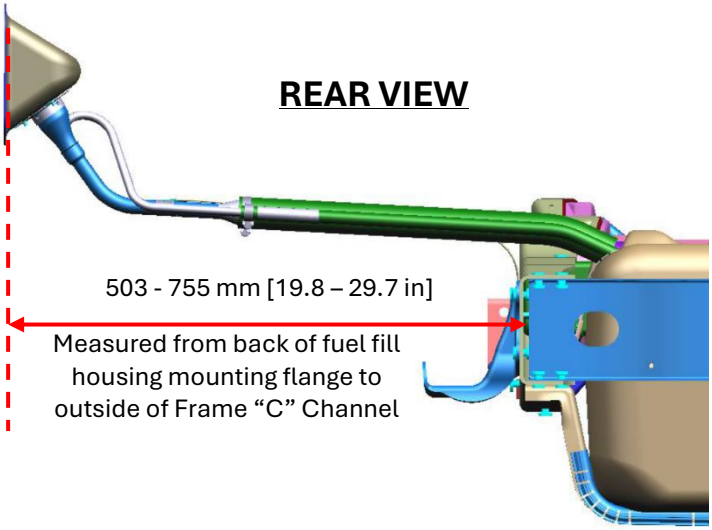

Ground strap should be attached to one of the 9.2mm holes shown in frame with W611645 M10 self-tapping screw (provided, torque to 25 +/- 3.8 Nm [18.4 +/- 2.8 ft-lb]) and to the metal fuel fill tube assembly with N611131 M4 self-tapping screw (provided)

Measured from top of fuel fill housing mounting flange to surface of frame above rear spring hanger bracket

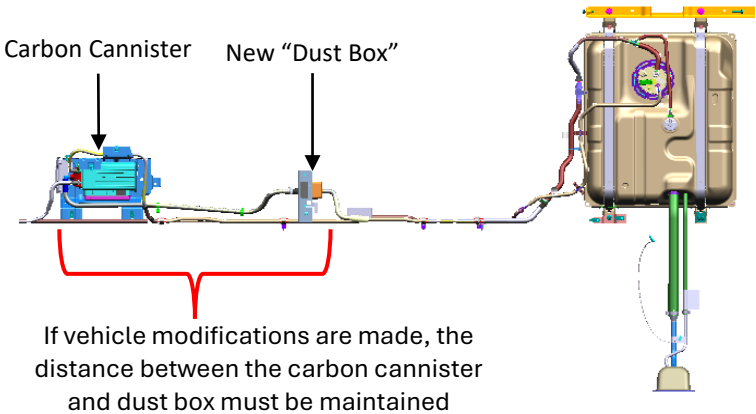
**NOTES:**

- **CRITICAL CONTROL ITEM** - Torque all worm gear hose clamps to 5.4 +/- 0.9 Nm [48 +/- 8 in-lbs]
- **CRITICAL CONTROL ITEM** – The fuel fill vent hose contains a brass orifice installed in one end (indicated by a label). The end with the orifice must be attached to the metal fuel fill tube assembly. If necessary to adjust the vent hose length, trim the hose from the opposite end. See picture below
- The fuel fill housing must be mounted to body on a vertical plane
- Both the fuel fill and vent hoses must maintain a minimum 3-degree downward slope to achieve desired fuel fill performance
- If there is a potential touch condition between a fuel fill component and the Second Unit Body, add a protective sleeve to the fuel fill component to prevent abrasion

## REAR VIEW

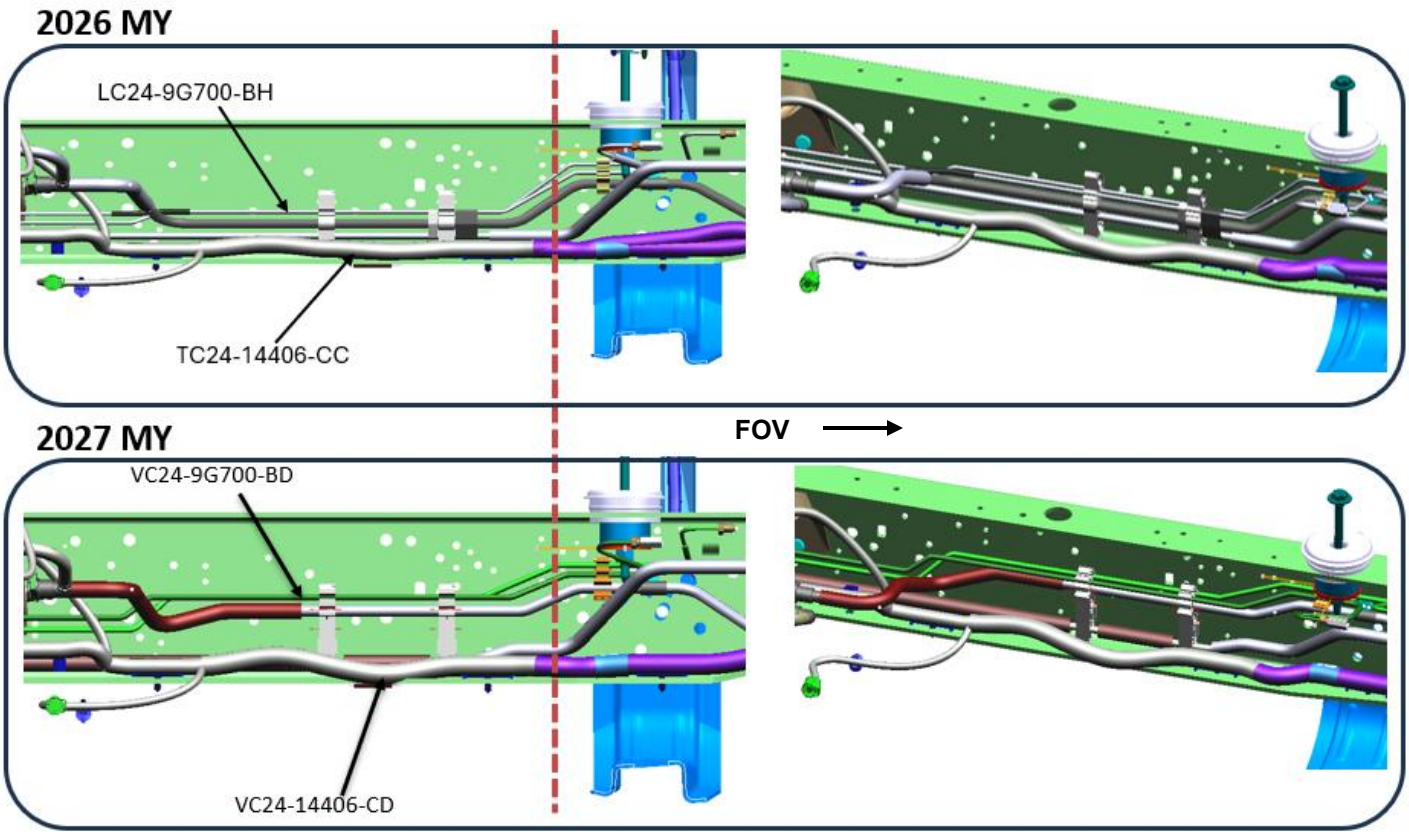



## PLAN VIEW




If vehicle modifications are made, the distance between the carbon cannister and dust box must be maintained

- 27MY Brake Lines - Increased OD because of the sleeve cover, same connectors
- 27MY Fuel Liquid line – Same OD, slightly different routing
- 27MY Fuel Vapor Line Forward of Vapor Canister – Same OD/material but different routing
- 27MY Fuel Vapor Line Rearward of Vapor Canister – Larger OD, different line material
- 27MY Frame Rail mounted Dust Box

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